

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

a' cont.  
wherein "a" may be the same or different and represents any amino acid residue and the numerical subscript on each "a" represents its position in the amino acid sequence and "C" represents a cysteine residue at a position indicated by its Roman numeral and wherein the mature domain has activity against one or more plant pests with the proviso that the polypeptide is not FST or TPP3.

[ Please amend claim 26 to read as follows: ]

- a2  
26. (Once amended) A method for generating a plant with increased or enhanced resistance to a plant pest, said method comprising introducing into the genome of a plant cell or genome of a group of plant cells a genetic construct comprising a promoter or functional equivalent thereof operably linked to a nucleotide sequence encoding a floral-derived, defensin-like molecule having a mature domain comprising the amino acid sequence:

a<sub>1</sub>a<sub>2</sub>C<sub>I</sub>a<sub>3</sub>a<sub>4</sub>a<sub>5</sub>a<sub>6</sub>a<sub>7</sub>a<sub>8</sub>a<sub>9</sub>a<sub>10</sub>a<sub>11</sub>a<sub>12</sub>C<sub>II</sub>a<sub>13</sub>a<sub>14</sub>a<sub>15</sub>a<sub>16</sub>a<sub>17</sub>C<sub>III</sub>a<sub>18</sub>a<sub>19</sub>a<sub>20</sub>C<sub>IV</sub>a<sub>21</sub>a<sub>22</sub>a<sub>23</sub>a<sub>24</sub>a<sub>25</sub>a<sub>26</sub>a<sub>27</sub>a<sub>28</sub>  
a<sub>29</sub>C<sub>V</sub>a<sub>30</sub>a<sub>31</sub>a<sub>32</sub>a<sub>33</sub>a<sub>34</sub>a<sub>35</sub>C<sub>VI</sub>a<sub>36</sub>C<sub>VII</sub>a<sub>37</sub>a<sub>38</sub>a<sub>39</sub>C<sub>VIII</sub> (SEQ ID NO: 62)

wherein "a" may be the same or different and represents any amino acid residue, the numerical subscript on each "a" represents its position in the amino acid sequence and "C" represents a cysteine residue at a position indicated by its Roman numeral and wherein said mature domain exhibits inhibitory activity against plant pests such as insect pests and regenerating a plant from said cell or group of cells.

[ Please amend claim 32 to read as follows: ]

- a3  
32. (Once amended) The transfected or transformed cell, tissue or organ of Claim 31 wherein the polypeptide comprises a mature domain having the structure:

a<sub>1</sub>a<sub>2</sub>C<sub>I</sub>a<sub>3</sub>a<sub>4</sub>a<sub>5</sub>a<sub>6</sub>a<sub>7</sub>a<sub>8</sub>a<sub>9</sub>a<sub>10</sub>a<sub>11</sub>a<sub>12</sub>C<sub>II</sub>a<sub>13</sub>a<sub>14</sub>a<sub>15</sub>a<sub>16</sub>a<sub>17</sub>C<sub>III</sub>a<sub>18</sub>a<sub>19</sub>a<sub>20</sub>C<sub>IV</sub>a<sub>21</sub>a<sub>22</sub>a<sub>23</sub>a<sub>24</sub>a<sub>25</sub>a<sub>26</sub>a<sub>27</sub>a<sub>28</sub>  
a<sub>29</sub>C<sub>V</sub>a<sub>30</sub>a<sub>31</sub>a<sub>32</sub>a<sub>33</sub>a<sub>34</sub>a<sub>35</sub>C<sub>VI</sub>a<sub>36</sub>C<sub>VII</sub>a<sub>37</sub>a<sub>38</sub>a<sub>39</sub>C<sub>VIII</sub> (SEQ ID NO: 62)

A3  
cont

wherein "a" may be the same or different and represents any amino acid residue, the numerical subscript on each "a" represents its position in the amino acid sequence and "C" represents a cysteine residue at a position indicated by its Roman numeral and wherein the mature domain has activity against one or more plant pests.

C Please amend claim 39 to read as follows: ]

39. (Once amended) The isolated polypeptide of Claim 38 wherein the polypeptide comprises in its mature domain cystein residues in the following locations:-

A4

a<sub>1</sub>a<sub>2</sub>C<sub>I</sub>a<sub>3</sub>a<sub>4</sub>a<sub>5</sub>a<sub>6</sub>a<sub>7</sub>a<sub>8</sub>a<sub>9</sub>a<sub>10</sub>a<sub>11</sub>a<sub>12</sub>C<sub>II</sub>a<sub>13</sub>a<sub>14</sub>a<sub>15</sub>a<sub>16</sub>a<sub>17</sub>C<sub>III</sub>a<sub>18</sub>a<sub>19</sub>a<sub>20</sub>C<sub>IV</sub>a<sub>21</sub>a<sub>22</sub>a<sub>23</sub>a<sub>24</sub>a<sub>25</sub>a<sub>26</sub>a<sub>27</sub>a<sub>28</sub>  
a<sub>29</sub>C<sub>V</sub>a<sub>30</sub>a<sub>31</sub>a<sub>32</sub>a<sub>33</sub>a<sub>34</sub>a<sub>35</sub>C<sub>VI</sub>a<sub>36</sub>C<sub>VII</sub>a<sub>37</sub>a<sub>38</sub>a<sub>39</sub>C<sub>VIII</sub> (SEQ ID NO: 62)

wherein "a" may be the same or different and represents any amino acid residue and the numerical subscript on each "a" represents its position in the amino acid sequence and "C" represents a cysteine residue at a position indicated by its Roman numeral and wherein the mature domain has activity against one or more plant pests with the proviso that the polypeptide is not FST or TPP3.

In the Specification:

C Please replace the 3rd paragraph on page 5, lines 13-26 with the following: ]

A5

Another aspect of the present invention is directed to an isolated nucleic acid molecule comprising a sequence of nucleotides encoding or complementary to a sequence encoding a polypeptide comprising, in its precursor form, an N-terminal signal domain, a mature domain and an acidic C-terminal domain wherein said polypeptide is produced during flower development and its mature domain comprises the structure:

a<sub>1</sub>a<sub>2</sub>C<sub>I</sub>a<sub>3</sub>a<sub>4</sub>a<sub>5</sub>a<sub>6</sub>a<sub>7</sub>a<sub>8</sub>a<sub>9</sub>a<sub>10</sub>a<sub>11</sub>a<sub>12</sub>C<sub>II</sub>a<sub>13</sub>a<sub>14</sub>a<sub>15</sub>a<sub>16</sub>a<sub>17</sub>C<sub>III</sub>a<sub>18</sub>a<sub>19</sub>a<sub>20</sub>C<sub>IV</sub>a<sub>21</sub>a<sub>22</sub>a<sub>23</sub>a<sub>24</sub>a<sub>25</sub>a<sub>26</sub>a<sub>27</sub>a<sub>28</sub>a<sub>29</sub>C<sub>V</sub>a<sub>30</sub>a<sub>31</sub>a<sub>32</sub>a<sub>33</sub>a<sub>34</sub>a<sub>35</sub>C<sub>VI</sub>a<sub>36</sub>C<sub>VII</sub>a<sub>37</sub>a<sub>38</sub>a<sub>39</sub>C<sub>VIII</sub> (SEQ ID NO: 62)

wherein "a" may be the same or different and represents any amino acid residue, the numerical subscript on each "a" represents its position in the amino acid sequence and "C" represents a cysteine residue at a position indicated by its Roman numeral and wherein the mature domain has activity against one or more plant pests with the proviso that the polypeptide is not FST or TPP3.

as  
cont

Please replace the 4th paragraph on page 5 starting at line 28 to page 6, line 11, with the following:

A further aspect of the present invention contemplates an isolated nucleic acid molecule comprising a sequence of nucleotides encoding or complementary to a sequence encoding a polypeptide comprising, in its precursor form, an N-terminal signal domain, a mature domain and an acidic C-terminal domain wherein said polypeptide is produced in the epidermal layers of petals and sepals, the cortical cells of the style and the connective tissue of the anthers and its mature domain comprises the structure:

a<sub>1</sub>a<sub>2</sub>C<sub>I</sub>a<sub>3</sub>a<sub>4</sub>a<sub>5</sub>a<sub>6</sub>a<sub>7</sub>a<sub>8</sub>a<sub>9</sub>a<sub>10</sub>a<sub>11</sub>a<sub>12</sub>C<sub>II</sub>a<sub>13</sub>a<sub>14</sub>a<sub>15</sub>a<sub>16</sub>a<sub>17</sub>C<sub>III</sub>a<sub>18</sub>a<sub>19</sub>a<sub>20</sub>C<sub>IV</sub>a<sub>21</sub>a<sub>22</sub>a<sub>23</sub>a<sub>24</sub>a<sub>25</sub>a<sub>26</sub>a<sub>27</sub>a<sub>28</sub>a<sub>29</sub>C<sub>V</sub>a<sub>30</sub>a<sub>31</sub>a<sub>32</sub>a<sub>33</sub>a<sub>34</sub>a<sub>35</sub>C<sub>VI</sub>a<sub>36</sub>C<sub>VII</sub>a<sub>37</sub>a<sub>38</sub>a<sub>39</sub>C<sub>VIII</sub> (SEQ ID NO: 62)

wherein "a" may be the same or different and represents any amino acid residue, the numerical subscript on each "a" represents its position in the amino acid sequence and "C" represents a cysteine residue at a position indicated by its Roman numeral and wherein the mature domain has activity against one or more plant pests with the proviso that the polypeptide is not FST or TPP3.

Please replace the 3rd paragraph, starting from page 6, line 23, to page 7, line 4, with the following:

Still a further aspect of the present invention provides a genetic construct comprising a promoter or functional equivalent thereof operably linked to a nucleotide

as

sequence encoding a floral-derived, defensin-like molecule having a mature domain comprising the amino acid sequence:

A6  
cons

a<sub>1</sub>a<sub>2</sub>C<sub>I</sub>a<sub>3</sub>a<sub>4</sub>a<sub>5</sub>a<sub>6</sub>a<sub>7</sub>a<sub>8</sub>a<sub>9</sub>a<sub>10</sub>a<sub>11</sub>a<sub>12</sub>C<sub>II</sub>a<sub>13</sub>a<sub>14</sub>a<sub>15</sub>a<sub>16</sub>a<sub>17</sub>C<sub>III</sub>a<sub>18</sub>a<sub>19</sub>a<sub>20</sub>C<sub>IV</sub>a<sub>21</sub>a<sub>22</sub>a<sub>23</sub>a<sub>24</sub>a<sub>25</sub>a<sub>26</sub>a<sub>27</sub>a<sub>28</sub>a<sub>29</sub>C<sub>V</sub>a<sub>30</sub>a<sub>31</sub>a<sub>32</sub>a<sub>33</sub>a<sub>34</sub>a<sub>35</sub>C<sub>VI</sub>a<sub>36</sub>C<sub>VII</sub>a<sub>37</sub>a<sub>38</sub>a<sub>39</sub>C<sub>VIII</sub> (SEQ ID NO: 62)

wherein "a" may be the same or different and represents any amino acid residue, the numerical subscript on each "a" represents its position in the amino acid sequence and "C" represents a cysteine residue at a position indicated by its Roman numeral and wherein said mature domain exhibits inhibitory activity against plant pests such as insect pests with the proviso that the defensin-like molecule is not FST or TPP3.

[Please replace the 2nd paragraph on page 16, lines 16 to 31, with the following: ]

A7

Yet another aspect of the present invention provides a method for generating a plant with increased or enhanced resistance to an insect, said method comprising introducing into the genome of a plant cell or genome of a group of plant cells a genetic construct comprising a promoter or functional equivalent thereof operably linked to a nucleotide sequence encoding a defensin-like molecule having a mature domain comprising the amino acid sequence:

a<sub>1</sub>a<sub>2</sub>C<sub>I</sub>a<sub>3</sub>a<sub>4</sub>a<sub>5</sub>a<sub>6</sub>a<sub>7</sub>a<sub>8</sub>a<sub>9</sub>a<sub>10</sub>a<sub>11</sub>a<sub>12</sub>C<sub>II</sub>a<sub>13</sub>a<sub>14</sub>a<sub>15</sub>a<sub>16</sub>a<sub>17</sub>C<sub>III</sub>a<sub>18</sub>a<sub>19</sub>a<sub>20</sub>C<sub>IV</sub>a<sub>21</sub>a<sub>22</sub>a<sub>23</sub>a<sub>24</sub>a<sub>25</sub>a<sub>26</sub>a<sub>27</sub>a<sub>28</sub>a<sub>29</sub>C<sub>V</sub>a<sub>30</sub>a<sub>31</sub>a<sub>32</sub>a<sub>33</sub>a<sub>34</sub>a<sub>35</sub>C<sub>VI</sub>a<sub>36</sub>C<sub>VII</sub>a<sub>37</sub>a<sub>38</sub>a<sub>39</sub>C<sub>VIII</sub> (SEQ ID NO: 62)

wherein "a" may be the same or different and represents any amino acid residue, the numerical subscript on each "a" represents its position in the amino acid sequence and "C" represents a cysteine residue at a position indicated by its Roman numeral and wherein said mature domain exhibits inhibitory activity against plant pests such as insect pests and regenerating a plant from said cell or group of cells.

Please replace the 2nd paragraph on page 17, lines 10-22, with the following:

a8 Even still another aspect of the present invention is directed to the nucleic acid molecule comprising a sequence of nucleotides encoding or complementary to a sequence encoding a polypeptide comprising, in its precursor form, an N-terminal signal domain, a mature domain and an acidic C-terminal domain wherein said polypeptide is produced during flower development and its mature domain comprises the structure:

a<sub>1</sub>a<sub>2</sub>C<sub>I</sub>a<sub>3</sub>a<sub>4</sub>a<sub>5</sub>a<sub>6</sub>a<sub>7</sub>a<sub>8</sub>a<sub>9</sub>a<sub>10</sub>a<sub>11</sub>a<sub>12</sub>C<sub>II</sub>a<sub>13</sub>a<sub>14</sub>a<sub>15</sub>a<sub>16</sub>a<sub>17</sub>C<sub>III</sub>a<sub>18</sub>a<sub>19</sub>a<sub>20</sub>C<sub>IV</sub>a<sub>21</sub>a<sub>22</sub>a<sub>23</sub>a<sub>24</sub>a<sub>25</sub>a<sub>26</sub>a<sub>27</sub>a<sub>28</sub>a<sub>29</sub>C<sub>V</sub>a<sub>30</sub>a<sub>31</sub>a<sub>32</sub>a<sub>33</sub>a<sub>34</sub>a<sub>35</sub>C<sub>VI</sub>a<sub>36</sub>C<sub>VII</sub>a<sub>37</sub>a<sub>38</sub>a<sub>39</sub>C<sub>VIII</sub> (SEQ ID NO: 62)

wherein "a" may be the same or different and represents any amino acid residue, the numerical subscript on each "a" represents its position in the amino acid sequence and "C" represents a cysteine residue at a position indicated by its Roman numeral and wherein the mature domain has activity against one or more plant pests.

[ Please replace the 3<sup>rd</sup> paragraph on page 21, lines 21-31, with the following: ]

a9 **Figure 9** is an alignment of the amino acid sequence of NaPdf1 (SEQ ID NO: 18) with the predicted amino acid sequences encoded from five other flower-derived cDNA clones, as follows:

FST (SEQ ID NO: 20)

(flower specific thionin): Gu *et al.*, *Mol. Gen. Genet.* 234: 89-96, 1992;

TPP3: (SEQ ID NO: 21) Milligan and Gasser, *Plant Mol. Biol.* 28: 691-711, 1995;

NTS13: (SEQ ID NO: 22) Li and Gray, *Plant Physiology* 120: 633, 1999;

PPT: (SEQ ID NO: 23) Karunanandaa *et al.*, *Plant Mol. Biol.*, 26: 459-464, 1994;

ATPIIIa: (SEQ ID NO: 24) Yu *et al.*, Direct Submission, Accession No. S30578, 1999

A9

Some, but not all floral defensins have a C-terminal acidic domain of 32-33 amino acids.

[ Please replace the 4th paragraph on page 30, lines 20-30, with the following: ]

Reference herein to a "polypeptide" includes reference to a peptide or protein.

A10

Generally, the polypeptide comprises cysteine residues, the location of which is conserved within members of floral and non-floral-derived defensin molecules. The location of the eight cysteine residues may be defined as follows:

a<sub>1</sub>a<sub>2</sub>C<sub>I</sub>a<sub>3</sub>a<sub>4</sub>a<sub>5</sub>a<sub>6</sub>a<sub>7</sub>a<sub>8</sub>a<sub>9</sub>a<sub>10</sub>a<sub>11</sub>a<sub>12</sub>C<sub>II</sub>a<sub>13</sub>a<sub>14</sub>a<sub>15</sub>a<sub>16</sub>a<sub>17</sub>C<sub>III</sub>a<sub>18</sub>a<sub>19</sub>a<sub>20</sub>C<sub>IV</sub>a<sub>21</sub>a<sub>22</sub>a<sub>23</sub>a<sub>24</sub>a<sub>25</sub>a<sub>26</sub>a<sub>27</sub>a<sub>28</sub>a<sub>29</sub>C<sub>V</sub>a<sub>30</sub>a<sub>31</sub>a<sub>32</sub>a<sub>33</sub>a<sub>34</sub>a<sub>35</sub>C<sub>VI</sub>a<sub>36</sub>C<sub>VII</sub>a<sub>37</sub>a<sub>38</sub>a<sub>39</sub>C<sub>VIII</sub> (SEQ ID NO: 62)

wherein "a" may be the same or different and represents any amino acid residue, the numerical subscript on each "a" represents its position in the amino acid sequence and "C" represents a cysteine residue at a position indicated by its Roman numeral.

[ Please replace the 1st paragraph on page 31, lines 1-14, with the following: ]

Accordingly, another aspect of the present invention is directed to an isolated nucleic acid molecule comprising a sequence of nucleotides encoding or complementary to a sequence encoding a polypeptide comprising, in its precursor form, an N-terminal signal domain, a mature domain and an acidic C-terminal domain wherein said polypeptide is produced during flower development and its mature domain comprises the structure:

a<sub>1</sub>a<sub>2</sub>C<sub>I</sub>a<sub>3</sub>a<sub>4</sub>a<sub>5</sub>a<sub>6</sub>a<sub>7</sub>a<sub>8</sub>a<sub>9</sub>a<sub>10</sub>a<sub>11</sub>a<sub>12</sub>C<sub>II</sub>a<sub>13</sub>a<sub>14</sub>a<sub>15</sub>a<sub>16</sub>a<sub>17</sub>C<sub>III</sub>a<sub>18</sub>a<sub>19</sub>a<sub>20</sub>C<sub>IV</sub>a<sub>21</sub>a<sub>22</sub>a<sub>23</sub>a<sub>24</sub>a<sub>25</sub>a<sub>26</sub>a<sub>27</sub>a<sub>28</sub>a<sub>29</sub>C<sub>V</sub>a<sub>30</sub>a<sub>31</sub>a<sub>32</sub>a<sub>33</sub>a<sub>34</sub>a<sub>35</sub>C<sub>VI</sub>a<sub>36</sub>C<sub>VII</sub>a<sub>37</sub>a<sub>38</sub>a<sub>39</sub>C<sub>VIII</sub> (SEQ ID NO: 62)

wherein "a" may be the same or different and represents any amino acid residue, the

“C” represents a cysteine residue at a position indicated by its Roman numeral and wherein the mature domain has activity against one or more plant pests with the proviso that the polypeptide is not FST or TPP3.

A<sub>10</sub>  
C<sub>III</sub>

[ Please replace the 3rd paragraph on page 32, lines 17-31, with the following: ]

Accordingly, another aspect of the present invention contemplates an isolated nucleic acid molecule comprising a sequence of nucleotides encoding or complementary to a sequence encoding a polypeptide comprising, in its precursor form, an N-terminal signal domain, a mature domain and an acidic C-terminal domain wherein said polypeptide is produced in the epidermal layers of petals and sepals, the cortical cells of the style and connective tissue of the anthers and its mature domain comprises the structure:

A<sub>11</sub>

a<sub>1</sub>a<sub>2</sub>C<sub>I</sub>a<sub>3</sub>a<sub>4</sub>a<sub>5</sub>a<sub>6</sub>a<sub>7</sub>a<sub>8</sub>a<sub>9</sub>a<sub>10</sub>a<sub>11</sub>a<sub>12</sub>C<sub>II</sub>a<sub>13</sub>a<sub>14</sub>a<sub>15</sub>a<sub>16</sub>a<sub>17</sub>C<sub>III</sub>a<sub>18</sub>a<sub>19</sub>a<sub>20</sub>C<sub>IV</sub>a<sub>21</sub>a<sub>22</sub>a<sub>23</sub>a<sub>24</sub>a<sub>25</sub>a<sub>26</sub>a<sub>27</sub>a<sub>28</sub>a<sub>29</sub>C<sub>V</sub>a<sub>30</sub>a<sub>31</sub>a<sub>32</sub>a<sub>33</sub>a<sub>34</sub>a<sub>35</sub>C<sub>VI</sub>a<sub>36</sub>C<sub>VII</sub>a<sub>37</sub>a<sub>38</sub>a<sub>39</sub>C<sub>VIII</sub> (SEQ ID NO: 62)

wherein “a” may be the same or different and represents any amino acid residue, the numerical subscript on each “a” represents its position in the amino acid sequence and “C” represents a cysteine residue at a position indicated by its Roman numeral and wherein the mature domain has activity against one or more plant pests with the proviso that the polypeptide is not FST or TPP3.

[ Please replace the 4th paragraph on page 37, lines 11-23, with the following: ]

Accordingly, another aspect of the present invention provides a genetic construct comprising a promoter or functional equivalent thereof operably linked to a nucleotide sequence encoding a floral-derived, defensin-like molecule having a mature domain comprising the amino acid sequence:

A<sub>12</sub>



a<sub>1</sub>a<sub>2</sub>C<sub>I</sub>a<sub>3</sub>a<sub>4</sub>a<sub>5</sub>a<sub>6</sub>a<sub>7</sub>a<sub>8</sub>a<sub>9</sub>a<sub>10</sub>a<sub>11</sub>a<sub>12</sub>C<sub>II</sub>a<sub>13</sub>a<sub>14</sub>a<sub>15</sub>a<sub>16</sub>a<sub>17</sub>C<sub>III</sub>a<sub>18</sub>a<sub>19</sub>a<sub>20</sub>C<sub>IV</sub>a<sub>21</sub>a<sub>22</sub>a<sub>23</sub>a<sub>24</sub>a<sub>25</sub>a<sub>26</sub>a<sub>27</sub>a<sub>28</sub>a<sub>29</sub>C<sub>V</sub>a<sub>30</sub>a<sub>31</sub>a<sub>32</sub>a<sub>33</sub>a<sub>34</sub>a<sub>35</sub>C<sub>VI</sub>a<sub>36</sub>C<sub>VII</sub>a<sub>37</sub>a<sub>38</sub>a<sub>39</sub>C<sub>VIII</sub> (SEQ ID NO: 62)

a<sub>12</sub> cont.  
wherein "a" may be the same or different and represents any amino acid residue, the numerical subscript on each "a" represents its position in the amino acid sequence and "C" represents a cysteine residue at a position indicated by its Roman numeral and wherein said mature domain exhibits inhibitory activity against plant pests such as insect pests with the proviso that the defensin-like molecule is not FST or TPP3.

C Please replace the 2<sup>nd</sup> paragraph on page 46, lines 5-20, with the following: }

a<sub>13</sub>  
The present invention further contemplates a method for generating a plant with increased or enhanced resistance to a plant pest, said method comprising introducing into the genome of a plant cell or genome of a group of plant cells a genetic construct comprising a promoter or functional equivalent thereof operably linked to a nucleotide sequence encoding a floral-derived, defensin-like molecule having a mature domain comprising the amino acid sequence:

a<sub>1</sub>a<sub>2</sub>C<sub>I</sub>a<sub>3</sub>a<sub>4</sub>a<sub>5</sub>a<sub>6</sub>a<sub>7</sub>a<sub>8</sub>a<sub>9</sub>a<sub>10</sub>a<sub>11</sub>a<sub>12</sub>C<sub>II</sub>a<sub>13</sub>a<sub>14</sub>a<sub>15</sub>a<sub>16</sub>a<sub>17</sub>C<sub>III</sub>a<sub>18</sub>a<sub>19</sub>a<sub>20</sub>C<sub>IV</sub>a<sub>21</sub>a<sub>22</sub>a<sub>23</sub>a<sub>24</sub>a<sub>25</sub>a<sub>26</sub>a<sub>27</sub>a<sub>28</sub>a<sub>29</sub>C<sub>V</sub>a<sub>30</sub>a<sub>31</sub>a<sub>32</sub>a<sub>33</sub>a<sub>34</sub>a<sub>35</sub>C<sub>VI</sub>a<sub>36</sub>C<sub>VII</sub>a<sub>37</sub>a<sub>38</sub>a<sub>39</sub>C<sub>VIII</sub> (SEQ ID NO: 62)

wherein "a" may be the same or different and represents any amino acid residue, the numerical subscript on each "a" represents its position in the amino acid sequence and "C" represents a cysteine residue at a position indicated by its Roman numeral and wherein said mature domain exhibits inhibitory activity against plant pests such as insect pests and regenerating a plant from said cell or group of cells. In one aspect, this embodiment does not extend to defensin-like molecules FST and TPP3.

Please replace the 3<sup>rd</sup> paragraph on page 48, lines 8-22, with the following:

Q14

Yet another aspect of the present invention provides a method for generating a plant with increased or enhanced resistance to an insect, said method comprising introducing into the genome of a plant cell or genome of a group of plant cells a genetic construct comprising a promoter or functional equivalent thereof operably linked to a nucleotide sequence encoding a defensin-like molecule having a mature domain comprising the amino acid sequence:

a<sub>1</sub>a<sub>2</sub>C<sub>I</sub>a<sub>3</sub>a<sub>4</sub>a<sub>5</sub>a<sub>6</sub>a<sub>7</sub>a<sub>8</sub>a<sub>9</sub>a<sub>10</sub>a<sub>11</sub>a<sub>12</sub>C<sub>II</sub>a<sub>13</sub>a<sub>14</sub>a<sub>15</sub>a<sub>16</sub>a<sub>17</sub>C<sub>III</sub>a<sub>18</sub>a<sub>19</sub>a<sub>20</sub>C<sub>IV</sub>a<sub>21</sub>a<sub>22</sub>a<sub>23</sub>a<sub>24</sub>a<sub>25</sub>a<sub>26</sub>a<sub>27</sub>a<sub>28</sub>a<sub>29</sub>C<sub>V</sub>a<sub>30</sub>a<sub>31</sub>a<sub>32</sub>a<sub>33</sub>a<sub>34</sub>a<sub>35</sub>C<sub>VI</sub>a<sub>36</sub>C<sub>VII</sub>a<sub>37</sub>a<sub>38</sub>a<sub>39</sub>C<sub>VIII</sub> (SEQ ID NO: 62)

wherein "a" may be the same or different and represents any amino acid residue, the numerical subscript on each "a" represents its position in the amino acid sequence and "C" represents a cysteine residue at a position indicated by its Roman numeral and wherein said mature domain exhibits inhibitory activity against plant pests such as insect pests and regenerating a plant from said cell or group of cells.

[ Please replace the 4<sup>th</sup> paragraph on page 57, starting at line 21 and ending on page 58, line 2, with the following: ]

Q15

Preferably, the nucleic acid molecule comprises a sequence of nucleotides encoding or complementary to a sequence encoding a polypeptide comprising, in its precursor form, an N-terminal signal domain, a mature domain and an acidic C-terminal domain wherein said polypeptide is produced during flower development and its mature domain comprises the structure:

a<sub>1</sub>a<sub>2</sub>C<sub>I</sub>a<sub>3</sub>a<sub>4</sub>a<sub>5</sub>a<sub>6</sub>a<sub>7</sub>a<sub>8</sub>a<sub>9</sub>a<sub>10</sub>a<sub>11</sub>a<sub>12</sub>C<sub>II</sub>a<sub>13</sub>a<sub>14</sub>a<sub>15</sub>a<sub>16</sub>a<sub>17</sub>C<sub>III</sub>a<sub>18</sub>a<sub>19</sub>a<sub>20</sub>C<sub>IV</sub>a<sub>21</sub>a<sub>22</sub>a<sub>23</sub>a<sub>24</sub>a<sub>25</sub>a<sub>26</sub>a<sub>27</sub>a<sub>28</sub>a<sub>29</sub>C<sub>V</sub>a<sub>30</sub>a<sub>31</sub>a<sub>32</sub>a<sub>33</sub>a<sub>34</sub>a<sub>35</sub>C<sub>VI</sub>a<sub>36</sub>C<sub>VII</sub>a<sub>37</sub>a<sub>38</sub>a<sub>39</sub>C<sub>VIII</sub> (SEQ ID NO: 62)